### PATENT COOPERATION TREATY

WO 97/16452 PCT/EP96/04573 Bcieage: 13

		From the INTERNATION	DNAL BUREA	\U
PCT	To:	Fless	Ressort Patento	
COMMUNICATION OF THE INT APPLICATION TO THE DESIGNA	IOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES  (PCT Rule 47.1(c), first sentence)		15. MA	Post / Termine PATHUN.
Date of mailing (day/month/year) 09 May 1997 (09.05.97)		136 No. 1382	3:	PATO/S
Applicant's or agent's file reference 4-20624/A		Se to Valleren	T NOTIC	SES CE
International application No. PCT/EP96/04573	International filing da 22 October 19		ty date (day/mod )1 November	nth/year) 1995 (01.11.95)
Applicant NOVARTIS AG et al				

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

AU,BR,CA,CN,CZ,EP,IL,JP,KP,KR,NO,PL,RO,SK,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have saved the requirement for such a communication at this time:

AL,AP,BA,BB,BG,CU,EA,EE,GE,HU,IS,LC,LK,LR,LT,LV,MG,MK,MN,MX,NZ,OA,SG,SI,TR,TT,UA. UZ,VN

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 09 May 1997 (09.05.97) under No. WO 97:16452

#### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

	L	STERFASSUNG Visu	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer	/EITERFASSUNG Visu J. Zahra	im: Cluf
Facsimile No. (41-22) 740.14.35	Telephone No. (41-	22) 730.91.11	



### WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup>: C07D 473/16, 473/00, 473/40

**A1** 

(11) International Publication Number:

WO 97/16452

(43) International Publication Date:

9 May 1997 (09.05.97)

(21) International Application Number:

PCT/EP96/04573

(22) International Filing Date:

22 October 1996 (22.10.96)

(30) Priority Data: 3094/95 2213/96

1 November 1995 (01.11.95) CH 10 September 1996 (10.09.96) CH

- (71) Applicant (for all designated States except US): NOVARTIS AG [CH/CH]; Schwarzwaldallee 215, CH-4058 Basic (CH).
- (72) Inventors; and
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  CAPRARO, Hans-Georg [CH/CH]; Habsburgerstrasse 60, CH-4310 Rheinfelden (CH). PETERLI, Patricia [CH/CH]; Metzerstrasse 15, CH-4056 Basle (CH). FURET, Pascal [FR/FR]; 24, rue du Riegelsbourg, F-68800 Thann (FR).
- (74) Common Representative: NOVARTIS AG; Patent and Trademark Dept., Klybeckstrasse 141, CH-4002 Basle (CH).

(81) Designated States: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

#### Published

With international search report.

- (54) Title: PURINE DERIVATIVES AND PROCESSES FOR THEIR PREPARATION
- (57) Abstract

2-Amino-6-anilino-purine derivatives of formula (1) in which the symbols are as defined in claim 1, are described. These compounds inhibit p34cdc2/cyclin Bcdc13 kinase and can be used for treatment of hyperproliferative diseases, for example tumour diseases.

$$\begin{array}{c|c}
(R_1)_q \\
N & R_2 \\
(R_3)_m & (1) \\
R_5 & N & N \\
R_4 & (R_3)_n
\end{array}$$



#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		of Transmittal of International Search Report (220) as well as, where applicable, item 5 below.
4-20624/A	ACTION		·
International application No.	International filing date(	day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 96/04573	22/10/19	196	01/11/1995
Applicant			
CIBA-GEIGY AG et al.		· · · · · · · · · · · · · · · · · · ·	
This International Search Report ha according to Article 18. A copy is be			thority and is transmitted to the applicant
This International Search Report co  X It is also accompanied by a	nsists of a total of3 a copy of each prior art docume	sheets. nt cited in this repo	rt.
1. X Certain claims were found	unsearchable (see Box I).		
2. Unity of invention is lackin	g (see Box II).		
	on contains disclosure of a <b>nucle</b> arried out on the basis of the sec		acid sequence listing and the
international search was ca	filed with the international app	-	
片	furnished by the applicant sepa		ernational application
		•	ne effect that it did not include
			international application as filed.
	Transcribed by this Authority		
4. With regard to the title, X	the text is approved as submitt	ed by the applicant	
	the text has been established by	y this Authority to	read as follows:
5. With regard to the abstract,	the text is approved as submitt	red hy the applicant	-
	the text has been established, a	ecording to Rule 38	3.2(b), by this Authority as it appears in on the date of mailing of this International
	Search Report, submit comme		
6. The figure of the drawings to be	: published with the abstract is:		
Figure No	as suggested by the applicant.		None of the figures.
	because the applicant failed to	suggest a figure.	
	because this figure better chara	acterizes the inventi	on.



Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claim 13 is directed to a method of treatment of (diagnostic method practised on) the human/animal body the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box 11 Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

A. CLASS IPC 6	CO7D473/16 CO7D473/00 CO7D473	/40			
According	to International Patent Classification (IPC) or to both national class	ification and IPC			
<del></del>	S SEARCHED		· · · · · · · · · · · · · · · · · · ·		
Minimum d	ocumentation searched (classification system followed by classifica	tion symbols)	<u> </u>		
IPC 6	C07D				
		•			
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields s	earched		
Hectrome o	lata base consulted during the international search (name of data ba	se and, where practical, search terms used)			
		•			
	•				
			·		
	1ENTS CONSIDERED TO BE RELEVANT		Dalaman alaim No		
Category *	Citation of document, with indication, where appropriate, of the r	elevant passages	Relevant to claim No.		
			1 16		
A	EP,A,O 212 535 (BOEHRINGER MANNHI 4 March 1987	EIM GMBH)	1-16		
	see claims				
Α	WO,A,90 09178 (WHITBY RESEARCH		1-16		
[	INCORPORATED) 23 August 1990				
	see page 22 - page 29; claims				
	her documents are listed in the continuation of box C.	X Patent family members are listed	n annex.		
	tegories of cited documents:	T later document published after the inte			
	ent defining the general state of the art which is not lered to be of particular relevance	cited to understand the principle or the invention			
"E" earlier	document but published on or after the international	"X" document of particular relevance; the			
filing date  cannot be considered novel or cannot be considered to  L' document which may throw doubts on priority claim(s) or  involve an inventive step when the document is taken alone					
citatio	which is cited to establish the publication date of another  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the				
	"O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such documents, such combination being obvious to a person skilled				
'P' docum	ent published prior to the international filing date but han the priority date claimed	in the art.  *& document member of the same patent	family		
<u> </u>	actual completion of the international search	Date of mailing of the international se			
		_	•		
3	February 1997	1 2. 02. 97			
Name and	mailing address of the ISA	Authorized officer	· · · · · · · · · · · · · · · · · · ·		
	European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk				
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Luyten, H			

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### INT NATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 96/04573

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
EP-A-212535 04-03-87		DE-A- JP-B- JP-A- US-A-	3529497 6092407 62045588 4853386	26-02-87 16-11-94 27-02-87 01-08-89	
WO-A-9009178	23-08-90	AU-B- AU-A- EP-A- US-A-	626983 4941490 0457773 5565566	13-08-92 05-09-90 27-11-91 15-10-96	

# PATENT COOPERATION TREATY

Para Della	1098 From the INTERNATIONAL BUREAU
1 7. April 1990 PC14	То:
NOTIFICATION OF THE RECORDING OF A CHANGE  (PCT Rule 92bis.1 and Administrative Instructions, Section 422)  Date of mailing (day/month/year) 14 April 1998 (14.04.98)	NOVARTIS AG Patent and Trademark Dept. Klybeckstrasse 141 CH-4002 Basle SUISSE  Appl. Specialist
Applicant's or agent's file reference 4-20624/A	IMPORTANT NOTIFICATION
International application No. PCT/EP96/04573	International filing date (day/month/year) 22 October 1996 (22.10.96)
The following indications appeared on record concerning:      X the applicant      X the inventor	the agent the common representative
Name and Address PETERLI, Patricia Metzerstrasse 15	State of Nationality State of Residence CH CH Telephone No.
CH-4056 Basle Switzerland	Facsimile No.
	Teleprinter No.
The International Bureau hereby notifies the applicant that the the person X the name X the add	
Name and Address IMBACH, Patricia	State of Nationality State of Residence CH CH
Gstaltenrainweg 80 CH-4125 Riehen	Telephone No.
Switzerland	Facsimile No.
	Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority  X the International Preliminary Examining Authority	X the elected Offices concerned other:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Céline Faust  Gawn
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

### TIONAL SEARCH REPORT

nal Application No

PCT/EP 96/84573 A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C07D473/16 C07D473/00 C07D473/40 01 MAY 1998" According to International Patent Classification (IPC) or to both national classification and IPC B. PIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 C<sub>0</sub>7D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. EP.A.O 212 535 (BOEHRINGER MANNHEIM GMBH) 1-16 A 4 March 1987 see claims 1-16 WO.A.90 09178 (WHITBY RESEARCH Α INCORPORATED) 23 August 1990 see page 22 - page 29; claims Patent family members are listed in annex. Further documents are listed in the continuation of box C. IX I \* Special categories of cited documents: "I" later document published after the international filing data or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disciosure, use, exhibition or is, such combination being obvious to a person skilled other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 1 2 02 97 3 February 1997 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijrwijk Td. (+31-70) 340-2040, Tx. 31 651 epo nl, Luyten, H

Fax: (+31-70) 340-3016

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### INTERNATIONAL SEARCH REPORT

\*- 'ernational application No.

PCT/EP 96/04573

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Int	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claim 13 is directed to a method of treatment of (diagnostic method practised on) the human/animal body the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Rox II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4 <u>h</u>	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter nal Application No PCT/EP 96/84573

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
EP-A-212535	04-03-87	DE-A- JP-B- JP-A- US-A-	3529497 6092407 62045588 4853386	26-02-87 16-11-94 27-02-87 01-08-89	
WO-A-9009178	23-08-90	AU-B- AU-A- EP-A- US-A-	626983 4941490 0457773 5565566	13-08-92 05-09-90 27-11-91 15-10-96	

### PATENT COOPERATION TREATY

REC'D	0 3 DEC 1997
MEEO	,
	119/15/82

## **PCT**

### **INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

			(PCT Article 36 ar	na Rule	70	)
pplicant's or	agen	t's file reference	FOR FURTHER ACTI	ION	See	Notification of Transmittal of International
-20624/A			POR FORTILL ACTI	1014	Preli	iminary Examination Report (PCT/IPEA/416)
nternational	applica	ation No.	International filing date (day/mor	nth/year)		Priority date (day/month/year)
CT/EP96	/045	73	22/10/1996			01/11/1995
nternational	Patent	Classification (IPC) or na	ational classification and IPC			<u> </u>
C07D473/	16		•			·
Applicant						
NOVARTIS	S AG	et al.				
			nination report has been prepa according to Article 36.	ared by th	is Int	ernational Preliminary Examining Authority
2. This Ri	EPOF	RT consists of a total o	f 7 sheets, including this cover	er sheet.		
_ <del>-</del>	.:		ind by ANNEVEO : a . ab - ab -	af tha al-		tion plains and/or descripts
wh	nich h	ave been amended ar		and/or sl	neets	ction, claims and/or grawings containing rectifications made ve Instructions under the PCT).
These	annex	kes consist of a total o	of sheets.			
3. This re	port c	ontains indications rel	lating to the following items:		-	
1	$\boxtimes$	Basis of the report				
Н		Priority				
111	$\boxtimes$	Non-establishment	of opinion with regard to novel	lty, inventi	ive st	tep and industrial applicability
IV		Lack of unity of inve	ntion			
٧	☒		nt under Article 35(2) with rega nations supporting such statem		elty, i	inventive step or industrial applicability;
VI		Certain documents	cited			
VII		Certain defects in th	e international application			
VIII	$\boxtimes$	Certain observations	s on the international applicati	ion		
Date of subr	nissio	n of the demand	Dat	te of compl	etion	of this report
05/03/199	97					0 1. 12. 97
Name and n	nailing	address of the IPEA/	Aut	thorized off	icer	BOLED WITH
	Eur	opean Patent Office				
<i>o</i> )))		0298 Munich	I I	oss, I		
<u> </u>		. (+49-89) 2399-0, Tx: 52: c: (+49-89) 2399-4465	•	enhone No	1.49	3-89) 2399-8292

International application No. PCT/EP96/04573

### I. Basis of the report

1.	resp	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):					
	Description, pages:						
	1-82	2	as originally filed				
	Clai	ims, No.:					
	1-16	6	as originally filed				
2.	The	amendments have	e resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
3.			een established as if (some of) the amendments had not been made, since they have been beyond the disclosure as filed (Rule 70.2(c)):				
4.	Add	ditional observation	s, if necessary:				

International application No. PCT/EP96/04573

II.	Pri	prity
1.		This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
		☐ copy of the earlier application whose priority has been claimed.
		☐ translation of the earlier application whose priority has been claimed.
2.		This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.
Th	us fo	or the purposes of this report, the international filing date indicated above is considered to be the relevant date
3.	Add	litional observations, if necessary:
111.	No	on-establishment of opinion with regard to novelty, inventive step and industrial applicability
	•	estions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), a industrially applicable have not been examined in respect of:
		the entire international application.
	×	claims Nos. 13.
be	caus	se:
	×	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
		see Separate Sheet
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
		no international search report has been established for the said claims Nos

International application No. PCT/EP96/04573

٧.	V. Lack of unity of invention							
1.	In re	esponse to the invitation to restrict or pay additional fees the applicant has:						
		restricted the claims						
		paid additional fees.						
□ paid additional fees under protest.								
		neither restricted nor pai	id additi	onal fees				
2.		☐ This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.						
3.	This	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is						
		complied with.						
		not complied with for the	followi	ng reasor	ns:			
4.		Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:						
		ali parts.						
		] the parts relating to claims Nos						
٧.		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Sta	itement						
	Novelty (N)		Yes: No:	Claims Claims	1-16			
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-16			
	Ind	lustrial applicability (IA)	Yes: No:	Claims Claims	1-12,14-16 13			

2. Citations and explanations

see Separate Sheet

International application No. PCT/EP96/04573

#### VI. Certain documents cited

- 1. Certain published documents (Rule 70.10)
- 2. Non-written disclosures (Rule 70.9)

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see Separate Sheet

#### Novelty

With regard to the requirements for novelty the essential structural difference between the subject-matter claimed and that of D1 = EP-A-0 212 535 and D2 = WO-A-90 09178 resides in the presence of the  $(R_1)_a$ -anilino group at position 6 of all three classes of the compounds claimed (namely compounds of general formula I, II as well as V). The subject-matter claimed thus appears to be novel.

#### **Inventive step**

The problem underlying the present application, as stated by the Applicant, is to provide compounds having particularly valuable activity in treating hyperproliferative diseases, such as tumours and psoriasis.

D1 describes structurally related compounds however acting as antiallergic agents. D2 also relates to structurally related compounds being adenosine receptor antagonist useful in a different pharmacological field.

The solution proposed by the Applicant resides in the provision of the present compounds being 2-amino-6-anilino-purine derivatives substituted by the relevant distinguishing group attached at the 6 position (see novelty analysis above).

Data are given on pp. 18 to 20 where the compounds are assessed for their in vitro as well as in vivo activity however without any precise reference to which compounds have been actually tested. In this respect the Applicant is reminded that in order to judge if the compounds tested are indeed representative for the broadly defined matter for which protection is sought, further evidence is kindly required (as to what the general statements on pp.18 and 19 "the compounds of the formula I ... have an IC<sub>50</sub> of.." exactly referred to).

Thus an inventive step cannot at present been recognized.

### **Industrial Applicability**

For the assessment of the present Claim 13 on the question whether it is industrially applicable, no unified criteria exist in the PCT. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as

## INTERNATIONAL PRELIMINARY

International application No. PCT/EP96/04573

**EXAMINATION REPORT - SEPARATE SHEET** 

industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but will allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

### Clarity

In claims 1 and 2 each of the terms "lower" or "optionally substituted" as well as the terms coming out from their combination should be specified in accordance with the description pp.1 to 7 (in order to clearly defined R4 or R5, claim 2 should be introduced into claim 1).

R<sub>4</sub> means i.a. acyl having 1-30 C atoms. Since a C<sub>1</sub> acyl does not exist, the Applicant should remove this defect.